

U. S. DEPARTMENT OF ENERGY
ROCKY FLATS PLANT
ENVIRONMENTAL RESTORATION PROGRAM WEEKLY REPORT
WEEK ENDING AUGUST 7, 1992

Section I - Interagency Agreement

OU 1 - 881 Hillside

Phase III RFI/RI Field Activities -- Under the recently extended Draft RFI/RI Report schedule, work continues with emphasis on incorporating the Phase III analytical data into the Baseline Risk Assessment. Approximately 90 percent of the Phase III analytical data has been received and is available for incorporation into the report. The outstanding data is primarily radionuclide analyses.

Work on the OU 1 Corrective Measures Study/Feasibility Study (CMS/FS) continues with emphasis on preliminary identification of Applicable or Relevant and Appropriate Requirements (ARARs) and developing a broad list of potential alternatives for screening.

IRA Operations -- Effluent Tank 205 is full of water collected by the french drain and treated in the 891 treatment building. Discharge of effluent tank 206 began the week ending August 7, 1992. The discharge is being processed through the UV system to remove any organic contamination from the tank coatings. Recent samples verified that the UV system removes all of the organic contaminants from the tank coatings to below detection levels.

Hydrotesting of the influent line from the water collection vault at the bottom of the 881 Hillside has shown the line to be leak free. More testing of the line will be done to verify initial results. The one influent line feeds up the hill into the 891 treatment building and then into the two storage tanks.

The french drain monitoring well program that began July 30 continued with drilling of monitoring wells. Geotechnical oversight will be provided until the end of the program scheduled for August 21, 1992. Quality Assurance representatives have been in the field several times to assure proper procedures are followed and paperwork completed. Five of the eleven monitoring wells were completed by August 7, 1992. The sixth monitoring well installation began on August 7, 1992. The drilling program was added to the assessment phase of the OU 1 program by the regulatory agencies as a condition to extending the IRA construction milestone this past Spring.

OU 2 - 903 Pad, Mound, East Trenches Area

Phase II RFI/RI Alluvial Field Activities -- Negotiation of subcontracts for surficial soil sampling and support services is complete. Surficial soil samples will be collected within the next two weeks.

A field trip of the East Trenches Area was conducted for the regulatory agencies on August 5, 1992. Representatives from EPA, RFO, CDH, EG&G, and PRC (an EPA subcontractor) were present.

Phase II RI Report (Alluvial) and HHRA -- Comments on the draft copy of Technical Memorandum #5, Exposure Scenarios, were received later than expected from EPA and CDH and are now being reviewed by RFO.

A draft copy of the Aquifer Testing Report was received on July 27, 1992. Review of the document was performed the week ending August 7, 1992.

Feasibility Study (FS) -- The Statement of Work for the FS is being prepared this week and will be sent to Procurement the week ending August 14, 1992. It is

anticipated that the contract will be awarded under the new Master Task Agreement (MTA) subcontractor system.

South Walnut Creek IM/IRA (GAC and Rads Removal System) -- The Procedures Manual and Health and Safety Plan for the OU 2 Surface Water IRA Operations and Maintenance continue to be developed.

Two of the activated carbon units used for VOC removal at the OU2 Surface Water IM/IRA were found to have pinhole leaks in welds. EG&G is working with Calgon to resolve this concern.

A meeting was held with EPA and CDH on the status of the OU2 Surface Water M There were two issues raised by the agencies. The first concerned the discrepancy in the concentration of radionuclides in the samples collected at the surge tank. The second issue raised was the collection system at seep SW132. A memo to J.M. Kersh was prepared to develop a strategy for addressing these concerns.

Field Treatability Unit -- The Field Treatability Unit (FTU) collected, treated, and discharged 83,440 gallons of surface water during the week of August 5, 1992. Twenty-four hour manned operation continues without problems. Three collection points continue to pump surface water for treatment as required. A 90-day accumulation area is being established near the FTU to store sludge generated from the treatment process.

An issues meeting was held on August 6, 1992 among RFO, EPA and CDH regarding the surface water IM/IRA. Items discussed were sludge generation, report milestones, and operational procedures. The key issue was that EPA "strongly advised" that RFO convert surface water diversion at SW station 132 from a temporary to a permanent station. The second issue was that RFO was able to report plant operating procedures that have successfully reduced sludge generation quantities from the FTU. Thirdly, RFO and EPA came to agreement that the Phase II IRA Report would be submitted on time, but due to the long report time of radionuclides data there will be an early cutoff schedule of input data included in the report. It was agreed that data collected after the cutoff would be included in other report vehicles as laboratory results become available.

The loose rheostat and field wires of the generator were determined to be the result of bearing problems within the generator unit. A new bearing has been ordered, and a rental generator is on-line in the interim. FTU downtime was three hours, July 30, 1992, to hook up the rental generator.

Small pinhole leaks have formed in the top weld seam of the two granular activated carbon (GAC) units currently on-line. Water droplets are forming and are being contained. EG&G, in conjunction with Calgon, is working toward a solution. The treatment system is operating as normal.

Subsurface Contamination (Woman Creek) IRAP -- A copy of the draft Final Subsurface IM/IRAP/EA Decision Document and the Responsiveness Summary is under review by RFO. The final document is due to the regulatory agencies on August 20, 1992.

A draft finding of no significant impact (FONSI) was sent to HQ for final preparation and sign-off. Design work has begun on the first draft Test Plan due September 4, 1992.

Operable Unit 2 Particle Monitoring -- A preliminary test has been performed on the Particle Analysis System (PAS) on the Memtek® membrane filtration system in the OU 2 Field Treatability Unit (FTU). A proposal was made to run the PAS on-line with the membrane system to determine reproducibility and capability of the particulate removal efficiencies of the membranes.

OU 3 - Offsite Releases -- Resolution of the *Spiranthes diluvialis*, an endangered plant, issue continues to delay start of the soil trenches and drilling of the groundwater monitoring wells. Offsite land use permitting continues, ahead of sampling activities. Surface soil sampling and environmental sampling continues.

The DOE contract with USGS to conduct sediment sampling in the three OU 3 reservoirs was signed last week with followup meetings this week. This work involves the sampling of sediment from the three reservoirs. This work will be conducted during August.

The subcontract with Midwest Research Institute (MRI) to conduct the wind tunnel study was signed and a kickoff meeting held the week of August 3, 1992. The first task is to produce a technical description of the study that will form the basis for a Technical Memoranda to be submitted to EPA and CDH. Wind tunnel field work is planned for September.

OU 4 - Solar Ponds -The contract to implement the Final Phase I RFI/RI Work Plan was awarded to the subcontractor on August 3, 1992. A core logging training class for the subcontractor was held August 7, 1992. Other training scheduled will include radiation worker training, health and safety, standard operating procedures, and general employee training for subcontractors.

OU 5 - Woman Creek -- The following preliminary draft documents for the RI fieldwork were received last week and are undergoing review:

- Revised draft Technical Memoranda 1 (TM 1), Water and Sediment Sampling Plan
- Technical Memoranda 3 (TM 3), Soil Sampling Plan - Landfill (IHSS 115)
- Technical Memoranda 7 (TM 7), Soil Boring Sampling Plan
- Technical Memoranda 8 (TM 8), Monitoring Well Installation (IHSS 115)
- Technical Memoranda 9 (TM 9), Monitoring Well Installation (IHSS 133)
- Draft Health and Safety Plan for OU 5
- Implementation of Phase I RFI/RI Work Plan

A meeting was held on August 2, 1992, between DOE, EG&G and the subcontractor to discuss TM#1. The draft will be revised to include DOE comments concerning data quality, clarification of proposed additional work, and time-series plots. The TM will be submitted to the regulators by the end of August to remain on schedule for surface and sediment sampling. The regulators have indicated that they will return comments on the Technical Memo within one week to aid in maintaining the IAG schedule. These TMs are short clarifications of surveys already agreed to in the RFI/RI Workplan and will be submitted to HQ as they become available. Comments must be received within one week of submittal to be incorporated into these TMs.

OU 6 - Walnut Creek -- The Health and Safety Plan (HSP) and the Field Implementation Plan were completed.

DOE and EG&G project managers are resolving what appear to be excessive requirements identified in the FY93 work packages for this OU.

RFO has requested that EG&G produce a new Technical Memorandum #1. This TM will include a revised surface water sampling plan, radiological survey at IHSS 165, ambient air monitoring program and deletion of several ground water monitoring wells.

A cost estimate for the analytical sample analysis is in progress. Results are forthcoming.

OU 7 - Present Landfill -- The revised Final RFI/RI Work Plan for OU 7 was submitted on July 17, 1992. The regulatory agencies are reviewing the work plan and approval is expected in August 1992.

OU 8 - 700 Area -- CDH and EPA are reviewing the revised Draft OU 8 Phase I RFI/RI Work Plan submitted on June 22, 1992. CDH and EPA were expected to submit comments by July 30, 1992; however, the comments on the OU 8 Work Plan have not yet been received. If formal written comments from the agencies are not received by August 12, 1992, the ability to meet the September 28, 1992 IAG milestone for delivery of the Final Work Plan for OU 8 becomes increasingly less likely.

OU 9 - Original Process Waste Lines -- Technical evaluation of proposals for implementation of the Phase I RFI/RI Work Plan for OU 9 is continuing on August 5, 1992. Subcontract award is anticipated by August 31, 1992.

The Additional Data Compilation (ADC) task of the field sampling plan portion of the Work Plan for OU 9 is continuing. Engineering drawings of the OPWL have been obtained. Additional engineering drawings are currently being researched and, if relevant to the OPWL, are being obtained.

OU 10 - Other Outside Closures -- The Final OU 10 Phase I RFI/RI Work Plan was submitted to the regulatory agencies on July 17, 1992. Work Plan approval is anticipated in August 1992.

OU 13 - 100 Area -- The Draft OU 13 RFI/RI Work Plan is undergoing EPA and CDH review. Regulatory agency comments are expected to be received by RFO on August 15, 1992. The subcontractor will prepare a comment summary document responding to all comments on the Plan.

OU 15 - Inside Building Closures -- EPA and CDH are reviewing the Draft Phase I RFI/RI Work Plan that was submitted to the agencies on May 27, 1992. The IAG milestone delivery date for the OU 15 Work Plan was June 1, 1992. Comments from the regulatory agencies are expected during August 1992.

OU 16 - Low-Priority Sites -- The Final No Further Action Justification Document for OU 16 was submitted to the regulatory agencies on July 30, 1992, the IAG milestone date.

Other Activities

PA Decontamination Facility -- Construction activities on the PA Decontamination Facility is proceeding rapidly. The berm area for the tank area is being built up. The fill is ready for the liner to be laid down. Contracts with subcontractors for the liner installation are being negotiated.

Section II - Pondcrete Activities

Modular Tanks -- The project schedule is dependent on engineering changes to the underdrain modification. Engineering modifications have been issued for the underdrain trench, inclinometers, piezometers and monuments. Redesign of the

underdrain trench was necessary due to engineering problems with wire size and lighting protection.

Halliburton Support--Several tasks required under the current schedule are being delayed due to coverage by the Davis-Bacon Act. This includes trailer installation and the Tent 6 removals. Davis-Bacon requires that the work be performed by a subcontractor rather than contractor maintenance crews. Work around plans are being evaluated to meet the schedule.

Section III - Surface Water Management

City of Broomfield Sampling--The City of Broomfield was at RFP on Tuesday, July 28, 1992 to check out the sampler at Walnut Creek and Indiana Street at the east end of the plant and to collect the weekly sample. Apparently some kind of power problem occurred the previous week because the sampler did not have enough water for a complete sample. The sampler was reprogrammed so that the right amount of water would be collected.

Pilot-Scale Water Treatment Testing-- Preparation of a Statement of Work has begun for the pilot-scale testing of multimedia/sand filtration of Rocky Flats Plant pond water. The pilot testing will support the design of a water treatment system for the treatment of pond water and subsequent removal of radionuclides.

Pond A-4 Shelter--The Beneficial Occupancy Form (BOF) for the Pond A-4 Shelter was signed by the Surface Water Division (as the user) on August 3, 1992. A final punch list for the subcontractor is part of the BOF and must be completed and approved before the final Project Acceptance Transfer is approved and issued.

CERCLA Regulation of Retention Ponds

RFO Management and Legal met on August 7, 1992 to discuss the consequences of the retention ponds being regulated by CERCLA. The outcome was an agreement that a pond CERCLA issue paper will be prepared by RFO for HQ. EPA and CDH will be contacted regarding IM/IRA scoping activities for managing the ponds under CERCLA. Scoping activities are exploratory and no RFO acknowledgement of the acceptability of that pond discharge regulation under CERCLA will be made.

Section IV - Transition/Decontamination and Decommissioning

Section V - Meetings

EPA - OU 2 Field Treatability Unit -- An issues meeting was held on August 6, 1992 among RFO, EPA and CDH regarding the surface water IM/IRA. Items discussed were sludge generation, report milestones, and operational procedures. The key issue was that EPA "strongly advised" that RFO convert surface water diversion at SW station 132 from a temporary to a permanent station. The second issue was that RFO was able to report plant operating procedures that have successfully reduced sludge generation quantities from the FTU. Thirdly, RFO and EPA came to agreement that the Phase II IRA Report would be submitted on time, but due to the long reporting cycle required to collect radionuclides data there will be an early cutoff schedule of input data included in the report. It was agreed that data collected after the cutoff would be included in other report vehicles as laboratory results become available.

OU 3 Windtunnel-- The subcontract with Midwest Research Institute (MRI) to conduct the wind tunnel study was signed and a kickoff meeting held the week of August 3, 1992. The first task is to produce a technical description of the study that will form the basis for a Technical Memoranda to be submitted to EPA and CDH. Wind tunnel field work is planned for September.

OU 3 USGS Sediment Sampling --The DOE contract with USGS to conduct sediment sampling in the three OU 3 reservoirs was signed. A kickoff meeting was held last week to discuss mobilization and coordination of the work. This work involves the sampling of sediment from the three reservoirs. This work will be conducted during August. Working meeting with USGS were held the week ending August 7 to discuss specific work plans.

Section VI - Future

- NEPA Documents Scheduled for Delivery to HQ: None
- August-October 1992 IAG Milestones Scheduled for Delivery from RFO to EPA/CDH:

No IAG Table 6 Milestones are scheduled for delivery to EPA/CDH in August

<u>OU</u>	<u>Milestone</u>	<u>Date Due to EPA/CDH</u>
08	Submit Final Phase I RFI/RI Work Plan	Sep. 28, 1992
12	Submit Final Phase I RFI/RI Work Plan	Oct. 5, 1992
13	Submit Final Phase I RFI/RI Work Plan	Oct. 12, 1992
15	Submit Final Phase I RFI/RI Work Plan	Oct. 26, 1992
01	Submit Draft Phase I RFI/RI Report	Oct. 28, 1992*

*extended from original IAG date of July 30, 1992 with approval from EPA/CDH